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## WHAT IS CLAIMED IS:

1. A pressure lamination apparatus comprising:
  - (a) a housing or frame in which a pressure box is mounted;
  - (b) said pressure box comprising two spaced apart pressurizable sections, an upper section and a lower section, wherein the space formed between the two sections defines a lamination section;
  - (c) two counter rotating drive belts, an upper drive belt and a lower drive belt, rotatably mounted in said housing or frame, wherein said belts contact one another at and pass in the same direction through the lamination section;
  - (d) a fluid medium pressure generator for supplying pressure to the upper and lower sections of the pressure box for compressing said drive belts moving there between; and
  - (e) whereby, depending upon the direction of rotation of said belts, one end of the lamination section acts as an inlet for substrates to be laminated and the opposite end acts as an outlet for pressure laminated materials.
2. The pressure lamination apparatus of claim 1, wherein the upper section of the pressure box further comprises a heat source.
3. The pressure lamination apparatus of claim 2, wherein the heat source comprises a plurality of heating elements.
4. The pressure lamination apparatus of claim 2, wherein the heat source comprises a steam powered heating section.
5. The pressure lamination apparatus of claim 1, wherein the upper section of the pressure box further comprises a cooling source.
6. The pressure lamination apparatus of claim 5, wherein the cooling source comprises a plurality of cooling elements.

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7. The pressure lamination apparatus of claim 5, wherein the cooling source comprises a cold water cooling section.

8. The pressure lamination apparatus of claim 1, wherein the lower section of the pressure box further comprises a heat source.

9. The pressure lamination apparatus of claim 8, wherein the heat source comprises a plurality of heating elements.

10. The pressure lamination apparatus of claim 9, wherein the lower heating elements are fixed in place.

11. The pressure lamination apparatus of claim 8, wherein the heat source comprises a steam powered heating section.

12. The pressure lamination apparatus of claim 1, wherein the lower section of the pressure box further comprises a cooling source.

13. The pressure lamination apparatus of claim 12, wherein the cooling source comprises a plurality of cooling elements.

14. The pressure lamination apparatus of claim 12, wherein the cooling source comprises a cold water cooling section.

15. The pressure lamination apparatus of claim 13, wherein the lower cooling elements are fixed in place.

16. The pressure lamination apparatus of claim 1, wherein lower section of the pressure box is mounted rigidly to the frame or housing.

17. The pressure lamination apparatus of claim 1, wherein the upper section of the pressure box is mounted to the frame in an adjustable manner.

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18. The pressure lamination apparatus of claim 1, wherein the pressure box sections further comprise pressure seals at the sides and the inlet and outlet ends of the lamination section.

19. The pressure lamination apparatus of claim 18, wherein the pressure seals comprise metal.

20. The pressure lamination apparatus of claim 18, wherein the pressure seals comprise one or more rubber bladders.

21. The pressure lamination apparatus of claim 18, wherein the drive belts are pressurized within a range of from about 5000 lbs to about 50,000 lbs, over an area of about 1500 in<sup>2</sup>.

22. The pressure lamination apparatus of claim 18, wherein the drive belts are pressurized within a range of from about 10,000 lbs to about 25,000 lbs, over an area of about 1500 in<sup>2</sup>.

23. The pressure lamination apparatus of claim 18, wherein the drive belts are pressurized at about 15,000 lbs over an area of about 1500 in<sup>2</sup> or 10 psi.

24. A laminated non-woven fabric formed in the apparatus of claim 1, said laminated fabric comprising:

a first non-woven layer and a second non-woven layer laminated to one another to form a laminated composite fabric;

said first non-woven layer having yarns aligned in the machine direction;

said second non-woven layer having yarns aligned substantially perpendicular to the machine direction;

said laminated composite fabric further including a film of adhesive disposed between the first and second non-woven layers.

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